



ICF International / Laboratory Data Consultants

Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
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MEMORANDUM

TO: Lisa Hanusiak, Remedial Project Manager
Site Cleanup Section 3, SFD-7-3

THROUGH: Rose Fong, ESAT Task Order Manager (TOM)
Quality Assurance (QA) Program, MTS-3

FROM: Doug Lindelof, Data Review Task Manager
Region 9 Environmental Services Assistance Team (ESAT)

ESAT Contract No.: EP-W-06-041
Technical Direction Form No.: 00105054

DATE: April 24, 2007

SUBJECT: Review of Analytical Data, Tier 3

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Alhambra
Site Account No.:	09 ES LA01
CERCLIS ID No.:	CAD980818579
Case No.:	35637
SDG No.:	MY2TD5
Laboratory:	CompuChem (LIBRTY)
Analysis:	Select CLP Dissolved Metals plus Dissolved Boron
Samples:	4 Groundwater Samples (see Case Summary)
Collection Date:	August 24, 2006
Reviewer:	Stan Kott, ESAT/Laboratory Data Consultants

This report has been reviewed by the EPA TOM for the ESAT contract, whose signature appears above.

If there are any questions, please contact Rose Fong (QA Program/EPA) at (415) 972-3812.

Attachment

cc: Cynthia Gurley, CLP PO USEPA Region 4
Steve Remaley, CLP PO USEPA Region 9

CLP PO: FYI Action

SAMPLING ISSUES: Yes No

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Data Validation Report

Case No.: 35637
SDG No.: MY2TD5
Site: Alhambra
Laboratory: CompuChem (LIBRTY)
Reviewer: Stan Kott, ESAT/LDC
Date: April 24, 2007

I. CASE SUMMARY

Sample Information

Samples: MY2TD5, MY2TD7, MY2TD8, and MY2TE1
Concentration and Matrix: Low Concentration Groundwater
Analysis: Select CLP Dissolved Metals plus Dissolved Boron
SOW: ILM05.3 and Modified Analysis Request 1264.3
Collection Date: August 24, 2006
Sample Receipt Date: August 25, 2006
Preparation Date: August 28, 2006
Analysis Date: August 29, 2006

Field QC

Field Blanks (FB): MY2TE1
Equipment Blanks (EB): Not Provided
Background Samples (BG): Not Provided
Field Duplicates (D1): MY2TD7 and MY2TD8

Laboratory QC

Method Blank & Associated Samples: Preparation Blank-Water (PBW) and samples listed above
Matrix Spike: MY2TD5S
Duplicates: MY2TD5D
ICP Serial Dilution: MY2TD5L

Analysis: Select CLP Dissolved Metals plus Dissolved Boron

<u>Analyte</u>	<u>Sample Preparation and Digestion Date</u>	<u>Analysis Date</u>
ICP-AES Metals	August 28, 2006	August 29, 2006
Percent Solids	Not Applicable	Not Applicable

CLP PO Action

None

Sampling Issues

The laboratory indicated temperature indicator bottles were not provided in the sample coolers. The laboratory used a laser thermometer and determined the cooler temperature to be 4°C. No adverse effect on data quality is expected.

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Additional Comments

Several pages of the data package require corrections. These corrections were requested from the laboratory but have not been received to date. Data quality is not likely to be affected and this report is considered final. Refer to the attached communication record log (CRL) for details.

Samples of this SDG were analyzed under Modified Analysis Request (MAR), Modification Reference Number 1264.3 for select CLP dissolved metals plus dissolved boron by inductively coupled plasma-atomic emission spectroscopy (ICP-AES).

All method requirements specified in the EPA Contract Laboratory Program (CLP) Inorganic Statement of Work (SOW), except as noted, have been met.

Analytical results are listed in Table 1A with qualifications. Definitions of data qualifiers used in Table 1A are listed in Table 1B.

This report was prepared in accordance with the following documents:

- X Region 9 Standard Operating Procedure 906, *Guidelines for Data Review of Contract Laboratory Program Analytical Services (CLPAS) Inorganic Data Packages*;
- X *Request for Quote for Modified Analysis* (SOW flexibility clause), Modification Reference Number: 1264.3, August 18, 2006;
- X *USEPA Contract Laboratory Program Statement of Work For Inorganic Analysis Multi-Media, Multi-Concentration ILM05.3*, March 2004; and
- X *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, October 2004.

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II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	<u>Parameter</u>	<u>Acceptable</u>	<u>Comment</u>
1.	Data Completeness	Yes	
2.	Sample Preservation and Holding Times	Yes	
3.	Calibration	Yes	
	a. Initial		
	b. Initial and Continuing Calibration Verification		
	c. CRQL Check Standard (CRI)		
4.	Blanks	Yes	B
5.	ICP Interference Check Sample (ICS)	Yes	
6.	Laboratory Control Sample (LCS)	Yes	
7.	Duplicate Sample Analysis	Yes	
8.	Matrix Spike Sample Analysis	Yes	
9.	ICP Serial Dilution Analysis	No	C
10.	ICP-MS Internal Standards	N/A	
11.	Field Duplicate Sample Analysis	Yes	
12.	Sample Quantitation	Yes	A
13.	Overall Assessment	Yes	

N/A = Not Applicable

III. VALIDITY AND COMMENTS

- A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) (denoted with an "L" qualifier) are estimated and flagged "J" in Table 1A.

Results above the MDL but below the CRQL are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in the analytical precision near the limit of quantitation.

- B. The following results are reported as non-detected (U) in Table 1A due to low level continuing calibration blank (CCB) contamination.

X Boron and sodium in sample MY2TE1

Boron (1.6 µg/L) and sodium (217µg/L) values in CCB2 are greater than the respective MDLs but less than the respective CRQLs. Sample results greater than or equal to the MDL but less than the CRQL are reported as non-detected (U) at the respective CRQL.

A CCB consists of deionized, distilled water and reagents. It is analyzed after the continuing calibration verification (CCV) standard, at a frequency of every 10 samples and at the end of the analytical run to monitor analyte carry-over.

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- C. The following results are estimated and flagged "J" in Table 1A because an ICP serial dilution result is outside method QC limits.

X Potassium in samples MY2TD5, MY2TD7, and MY2TD8

The percent difference for the ICP serial dilution analysis of sample MY2TD5L did not meet the 10% criterion for potassium as shown below.

Analyte	% Difference
Potassium	-17

Results reported for potassium in the samples listed above are considered quantitatively uncertain. Chemical and physical interferences may exist due to sample matrix effects. The result for potassium in the diluted sample was lower than the original. Therefore, the reported sample results for potassium may be biased high.

A five-fold dilution of the laboratory QC sample is performed in association with the ICP procedure to indicate whether interference exists due to sample matrix effects. If the analyte concentration is sufficiently high (minimally a factor of 50 above the MDL in the original sample), the five fold serial dilution must agree within 10% of the original results after correction for dilution.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR INORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared in accordance with the document *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, October 2004.

- U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.
- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
- UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

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In Reference to
Case: 35637 SDG No.: MY2TD5

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Communication Record Log

Date of Call: April 24, 2007

Laboratory Name: CompuChem (LIBRTY)

Lab Contact: Alice Evans

Region: 9

Regional Contact: Steve Remaley, CLP PO

ESAT Reviewer: Stan Kott, ESAT/LDC

Call Initiated By: Laboratory X Region

In reference to data for the following sample(s): All

Summary of Questions/issues Discussed:

The following items were noted during the review of this sample delivery group (SDG) data package. Please respond within 4 days as specified in ILM05.3 Statement of Work (SOW), Exhibit B, Section 2, 2.2. Send response and resubmissions to

ICF International/Laboratory Data Consultants, Inc.,
Environmental Services Assistance Team, USEPA Region 9 Laboratory
1337 S. 46th Street, Building 201, Richmond, CA 94804, FAX 510 412-2304.

1. The SDG Narrative (page 6) states the cooler temperature bottle was found with the samples. However, Sample Log-In Sheet (page 13) indicates cooler temperature bottle was absent. Please review the data and provide the appropriate corrected page.
2. NRAS number 1264.3 is absent from pages 4 and 22 through 48. Please review the data and provide the corrected pages.

Summary of Resolution: To be determined.

Regional Contact Signature

Date of Resolution